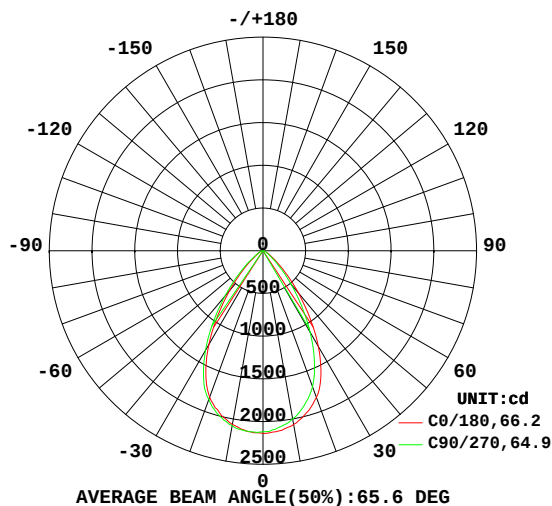


LUMINAIRE PHOTOMETRIC TEST REPORT

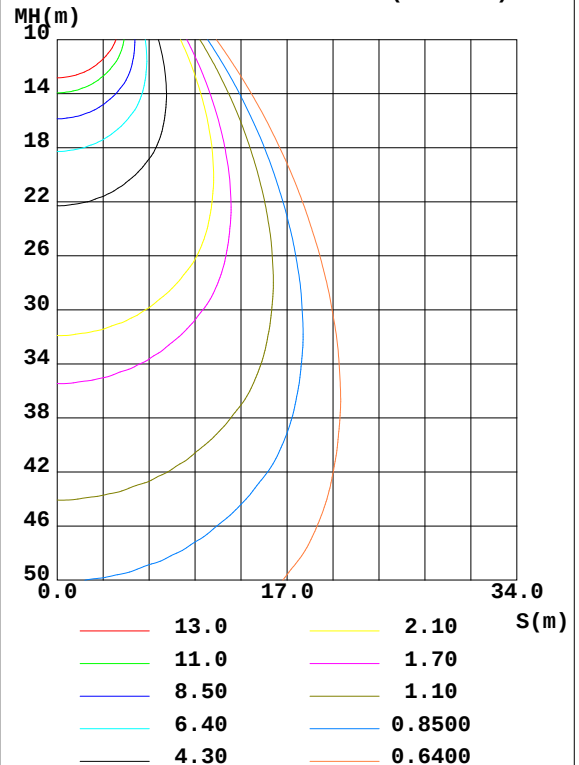
Test:U:230.58V I:0.1358A P:29.244W PF:0.9339 Freq:49.99Hz Lamp Flux:2519.37x1 lm		
NAME: BJ30-WHC30C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 65mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 86.15 lm/W			
MODEL	5700K	I _{max} (cd)	2138	S/MH(C0/180)	0.98
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	1.01
RATED VOLTAGE(V)	220-240	TOTAL FLUX(lm)	2519.4	η UP, DN(C0-180)	0.0, 47.5
NOMINAL FLUX(lm)	2519.37	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 52.5
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	1.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2024-05-23

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity: 65.0%
Test Distance: 7.450m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

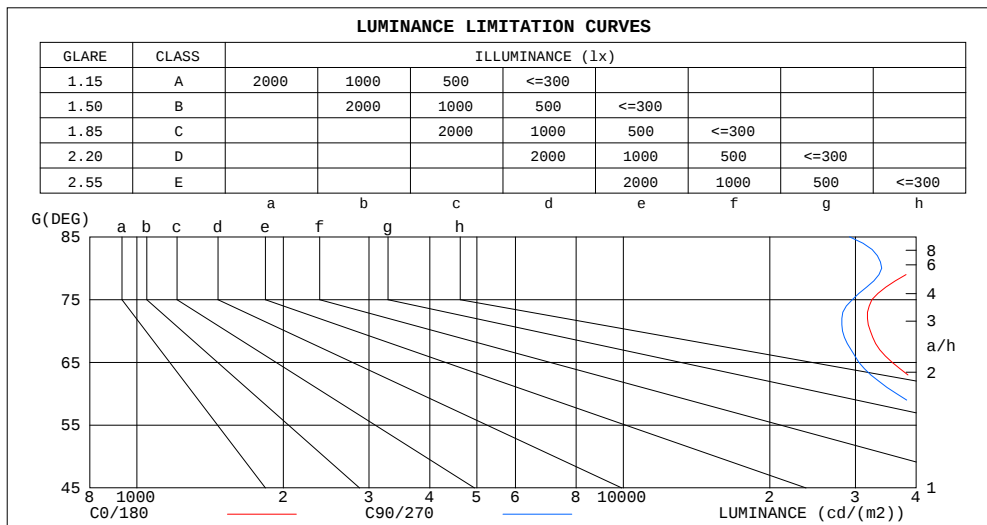
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	2064	2034	2000	2005	2064	2091	2079	2057	0- 10	199.1	199.1	7.9, 7.9
20	1828	1769	1697	1692	1824	1894	1854	1814	10- 20	545.3	744.4	29.5, 29.5
30	1299	1213	1108	1112	1268	1385	1349	1284	20- 30	708.6	1453	57.7, 57.7
40	647.1	577.8	514.4	524.2	609.4	694.7	691.4	648.4	30- 40	570.5	2024	80.3, 80.3
50	226.8	195.5	165.4	168.9	203.4	244.3	253.3	235.5	40- 50	295.6	2319	92.1, 92.1
60	74.74	66.98	60.53	60.34	66.87	76.65	79.55	75.83	50- 60	110.1	2429	96.4, 96.4
70	36.55	33.89	32.05	32.01	33.31	35.95	37.71	37.22	60- 70	48.56	2478	98.4, 98.4
80	23.07	21.18	19.59	19.71	20.65	22.54	23.71	23.44	70- 80	29.01	2507	99.5, 99.5
90	1.154	0.5327	0.5405	0.5327	0.1969	0.5405	2.540	2.038	80- 90	12.49	2519	100, 100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2024-05-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
 Humidity: 65.0%
 Test Distance: 7.450m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.58V I:0.1358A P:29.244W PF:0.9339 Freq:49.99Hz Lamp Flux:2519.37x1 lm		
NAME: BJ30-WHC30C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 65mm	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	46671	29170
80	40016	33980
75	32452	29569
70	32185	28224
65	35694	30483
60	45026	36461
55	65483	48914
50	106265	77516
45	170109	129869

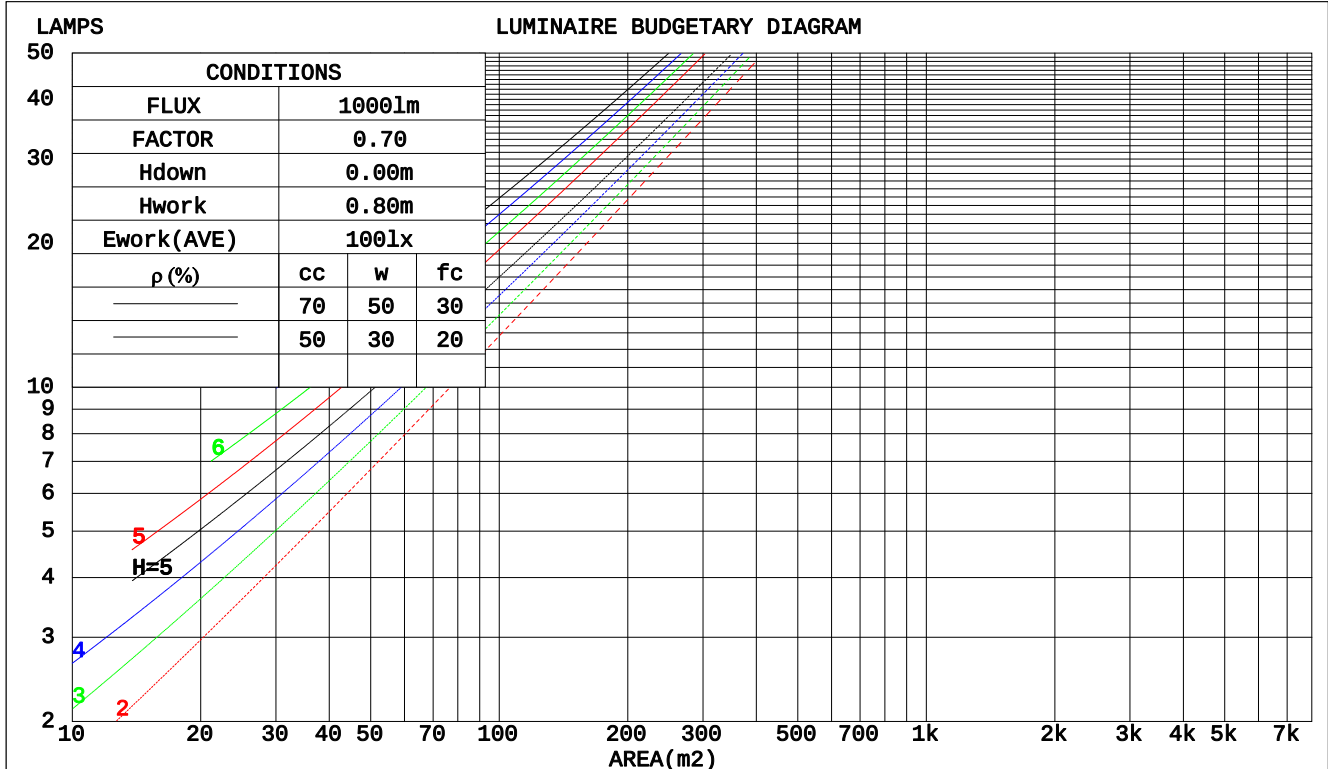
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2024-05-23

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity: 65.0%
Test Distance: 7.450m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.58V I:0.1358A P:29.244W PF:0.9339 Freq:49.99Hz Lamp Flux:2519.37x1 lm		
NAME: BJ30-WHC30C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 65mm	Shielding Angle:

ρ_{CC}	80%			70%			50%			30%			10%			0
ρ_W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	Coefficients of Utilization(CU)															
	RCR:Room Cavity Ratio															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.09	1.06	1.04	1.07	1.04	1.02	1.03	1.01	.99	.99	.98	.96	.96	.94	.93	.91
2.0	1.00	.96	.92	.98	.94	.91	.95	.92	.89	.92	.89	.87	.89	.87	.85	.83
3.0	.92	.86	.82	.91	.85	.81	.88	.84	.80	.86	.82	.79	.83	.80	.77	.76
4.0	.85	.79	.74	.84	.78	.73	.82	.77	.73	.80	.75	.72	.78	.74	.71	.69
5.0	.79	.72	.67	.78	.71	.67	.76	.70	.66	.74	.69	.66	.72	.68	.65	.63
6.0	.73	.66	.61	.72	.66	.61	.71	.65	.61	.69	.64	.60	.68	.63	.60	.58
7.0	.68	.61	.57	.67	.61	.56	.66	.60	.56	.65	.60	.56	.63	.59	.55	.54
8.0	.63	.57	.52	.63	.57	.52	.62	.56	.52	.61	.55	.52	.60	.55	.51	.50
9.0	.59	.53	.48	.59	.53	.48	.58	.52	.48	.57	.52	.48	.56	.51	.48	.46
10.0	.56	.49	.45	.55	.49	.45	.54	.49	.45	.54	.48	.45	.53	.48	.45	.43



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2024-05-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:230.58V I:0.1358A P:29.244W PF:0.9339 Freq:49.99Hz Lamp Flux:2519.37x1 lm					
NAME: BJ30-WHC30C02			TYPE:		WEIGHT:
SPEC.: white RA90 3000K+5700K			DIM.:		SERIAL No.:
MFR.:			SUR.: 65mm		Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.207	.118	.037	.200	.114	.036	.188	.108	.034	.176	.101	.033	.165	.096	.031	
2.0	.198	.109	.033	.192	.106	.033	.181	.101	.031	.171	.096	.030	.162	.092	.029	
3.0	.188	.100	.030	.183	.098	.029	.174	.094	.029	.165	.090	.028	.157	.087	.027	
4.0	.178	.093	.027	.174	.091	.027	.166	.088	.026	.158	.085	.026	.151	.082	.025	
5.0	.169	.086	.025	.165	.085	.025	.158	.082	.024	.151	.080	.024	.145	.077	.023	
6.0	.160	.080	.023	.157	.079	.023	.151	.077	.022	.145	.075	.022	.139	.073	.022	
7.0	.152	.075	.021	.149	.074	.021	.144	.073	.021	.138	.071	.021	.133	.069	.020	
8.0	.145	.071	.020	.142	.070	.020	.137	.069	.020	.133	.067	.019	.128	.066	.019	
9.0	.138	.067	.019	.136	.066	.019	.131	.065	.018	.127	.064	.018	.123	.062	.018	
10.0	.132	.063	.018	.130	.063	.017	.126	.062	.017	.122	.061	.017	.118	.059	.017	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.173	.157	.142	.148	.135	.123	.101	.093	.085	.058	.054	.049	.019	.017	.016	
2.0	.160	.132	.109	.137	.114	.095	.094	.079	.066	.054	.046	.039	.017	.015	.013	
3.0	.149	.114	.086	.127	.098	.074	.088	.068	.052	.051	.040	.031	.016	.013	.010	
4.0	.139	.099	.069	.120	.086	.060	.082	.060	.042	.048	.035	.025	.015	.011	.008	
5.0	.131	.088	.056	.113	.076	.049	.078	.053	.035	.045	.031	.021	.014	.010	.007	
6.0	.124	.079	.047	.107	.069	.041	.074	.048	.029	.043	.028	.017	.014	.009	.006	
7.0	.118	.072	.040	.101	.062	.034	.070	.044	.024	.041	.026	.015	.013	.008	.005	
8.0	.112	.066	.034	.097	.057	.030	.067	.040	.021	.039	.024	.012	.013	.008	.004	
9.0	.107	.061	.029	.092	.053	.026	.064	.037	.018	.037	.022	.011	.012	.007	.004	
10.0	.102	.056	.026	.088	.049	.023	.061	.034	.016	.036	.020	.010	.012	.007	.003	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2024-05-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.58V I:0.1358A P:29.244W PF:0.9339 Freq:49.99Hz Lamp Flux:2519.37x1 lm										
NAME: BJ30-WHC30C02					TYPE:			WEIGHT:		
SPEC.: white RA90 3000K+5700K					DIM.:			SERIAL No.:		
MFR.:					SUR.: 65mm			Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	23.1	24.2	23.4	24.4	24.6	22.2	23.3	22.4	23.5	23.6
3H	23.2	24.2	23.5	24.4	24.6	22.3	23.3	22.5	23.5	23.7
4H	23.3	24.2	23.5	24.4	24.7	22.4	23.3	22.6	23.5	23.8
6H	23.4	24.3	23.7	24.5	24.8	22.5	23.4	22.8	23.6	23.9
8H	23.4	24.3	23.8	24.6	24.8	22.5	23.4	22.8	23.7	23.9
12H	23.5	24.3	23.8	24.6	24.9	22.6	23.4	22.9	23.7	23.9
4H 2H	23.0	23.9	23.3	24.2	24.4	22.1	23.1	22.4	23.3	23.5
3H	23.2	24.0	23.5	24.2	24.5	22.3	23.1	22.6	23.4	23.7
4H	23.3	24.0	23.6	24.3	24.7	22.5	23.2	22.8	23.5	23.8
6H	23.5	24.2	23.9	24.5	24.9	22.7	23.4	23.1	23.7	24.1
8H	23.7	24.3	24.1	24.6	25.0	22.8	23.4	23.2	23.8	24.2
12H	23.8	24.4	24.2	24.8	25.1	22.9	23.5	23.3	23.8	24.2
8H 4H	23.3	23.9	23.7	24.2	24.6	22.5	23.1	22.9	23.5	23.8
6H	23.6	24.1	24.1	24.5	25.0	22.9	23.4	23.3	23.8	24.2
8H	23.9	24.3	24.3	24.7	25.2	23.1	23.5	23.5	23.9	24.4
12H	24.1	24.5	24.6	24.9	25.4	23.2	23.6	23.7	24.0	24.5
12H 4H	23.3	23.8	23.7	24.2	24.6	22.5	23.0	22.9	23.4	23.8
6H	23.7	24.1	24.1	24.5	25.0	22.9	23.4	23.4	23.8	24.2
8H	23.9	24.3	24.4	24.8	25.2	23.1	23.5	23.6	24.0	24.4
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.6 / - 2.3					+ 1.4 / - 2.3				
1.5H	+ 2.6 / - 2.3					+ 2.2 / - 2.1				
2.0H	+ 3.4 / - 1.8					+ 2.8 / - 1.6				

CIE Pub.117, 2519 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.2)
Area: 0.00332 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2024-05-23

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.58V I:0.1358A P:29.244W PF:0.9339 Freq:49.99Hz Lamp Flux:2519.37x1 lm		
NAME: BJ30-WHC30C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 65mm	Shielding Angle:

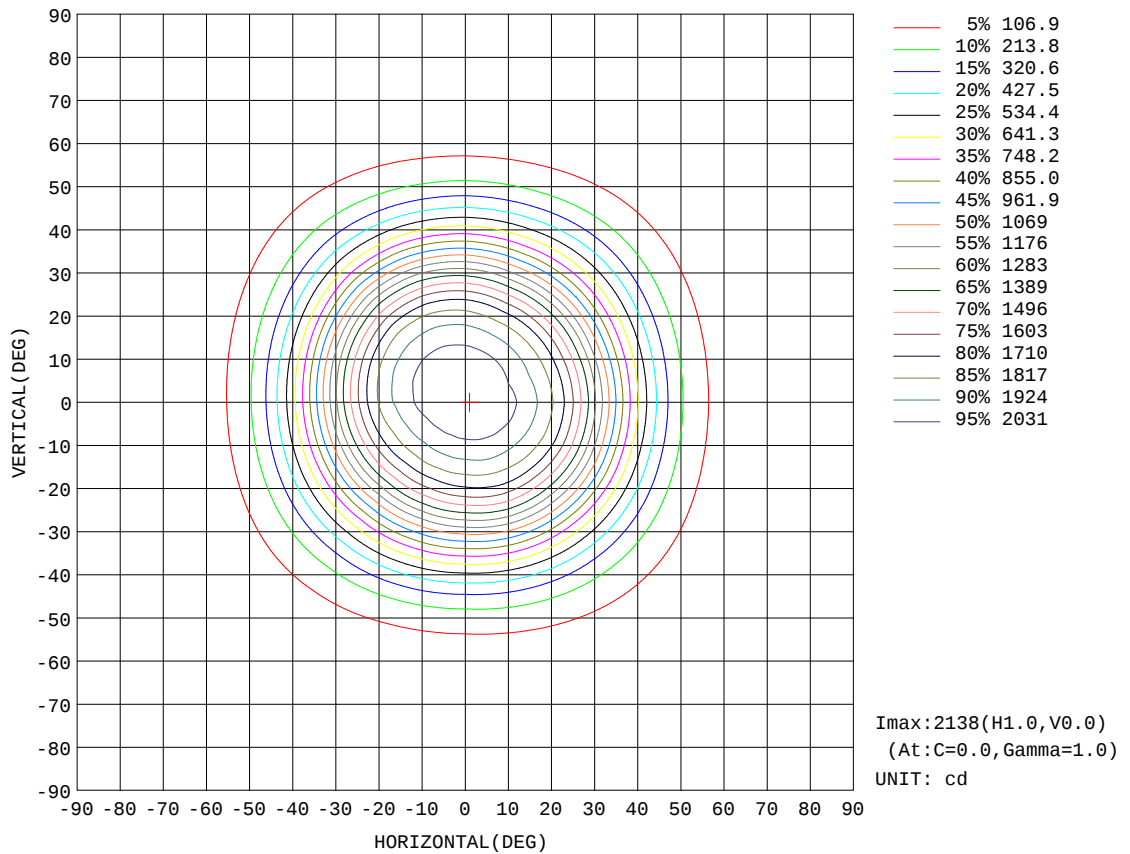
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	79	71	67	79	71	67	78	71	66	62
0.80	88	80	76	87	80	76	86	79	75	71
1.00	94	87	82	93	86	82	91	86	81	77
1.25	99	92	88	97	92	87	95	90	87	82
1.50	102	96	92	101	95	91	98	94	90	85
2.00	106	100	97	104	99	96	101	97	94	89
2.50	108	103	99	106	102	98	103	99	97	90
3.00	110	105	102	108	104	101	104	101	99	92
4.00	112	109	106	110	107	104	106	104	102	94
5.00	113	111	108	111	109	107	107	105	104	96
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2024-05-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:230.58V I:0.1358A P:29.244W PF:0.9339 Freq:49.99Hz Lamp Flux:2519.37x1 lm		
NAME: BJ30-WHC30C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 65mm	Shielding Angle:

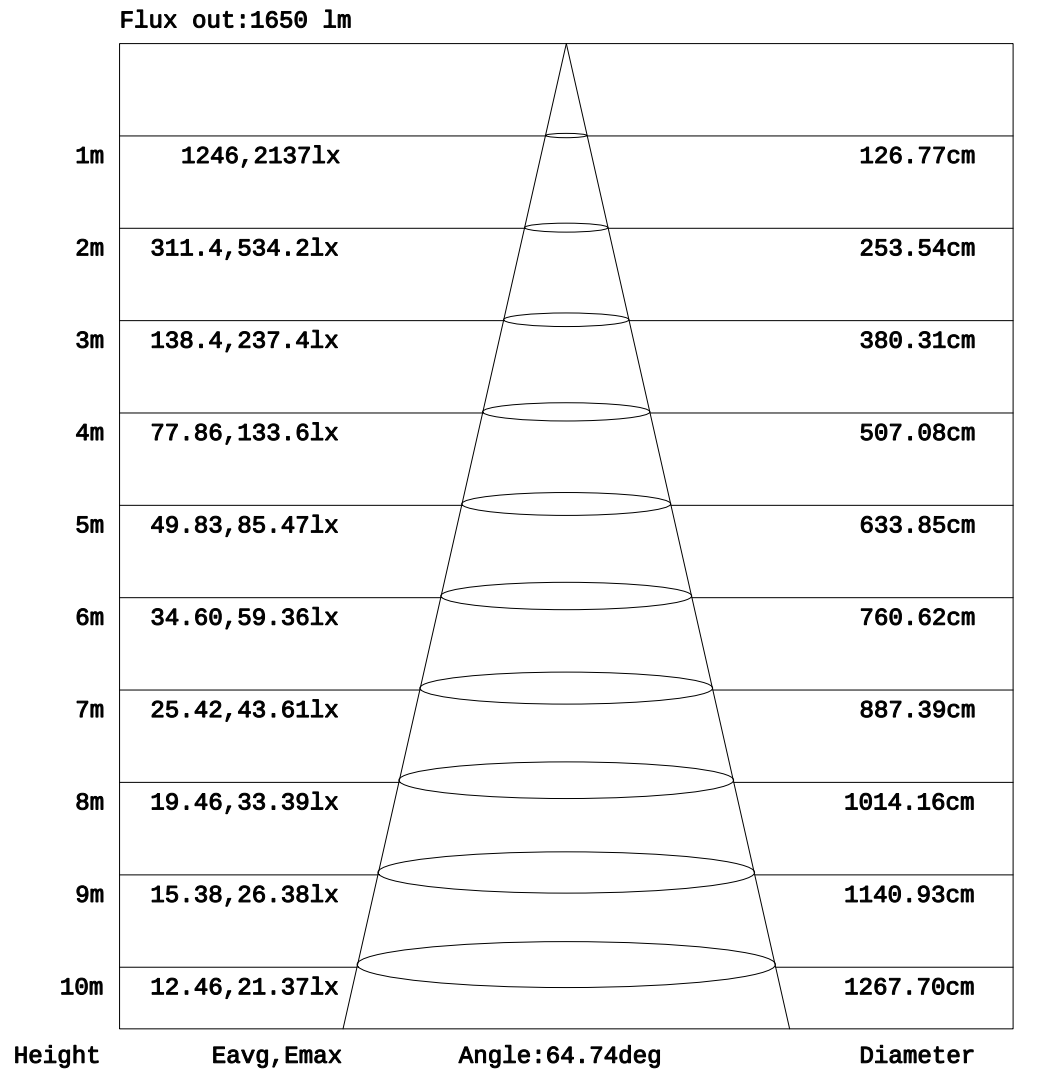


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2024-05-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity: 65.0%
Test Distance: 7.450m [K=1.0000]
Remarks:

AAI Figure

Test:U:230.58V I:0.1358A P:29.244W PF:0.9339 Freq:49.99Hz Lamp Flux:2519.37x1 lm		
NAME: BJ30-WHC30C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 65mm	Shielding Angle:



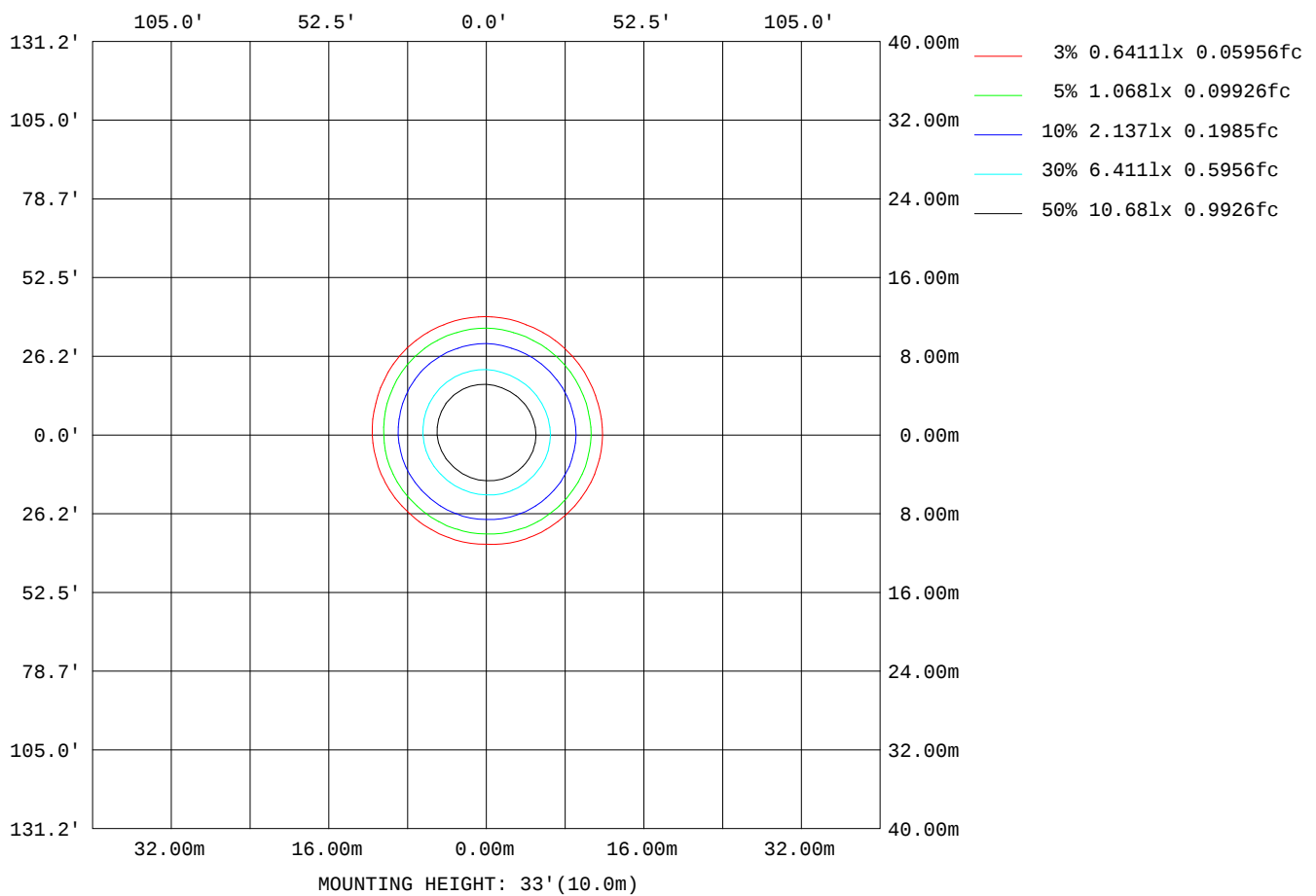
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2024-05-23

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:230.58V I:0.1358A P:29.244W PF:0.9339 Freq:49.99Hz Lamp Flux:2519.37x1 lm		
NAME: BJ30-WHC30C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 65mm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2024-05-23

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity: 65.0%
Test Distance: 7.450m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:230.58V I:0.1358A P:29.244W PF:0.9339 Freq:49.99Hz Lamp Flux:2519.37x1 lm		
NAME: BJ30-WHC30C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 65mm	Shielding Angle:

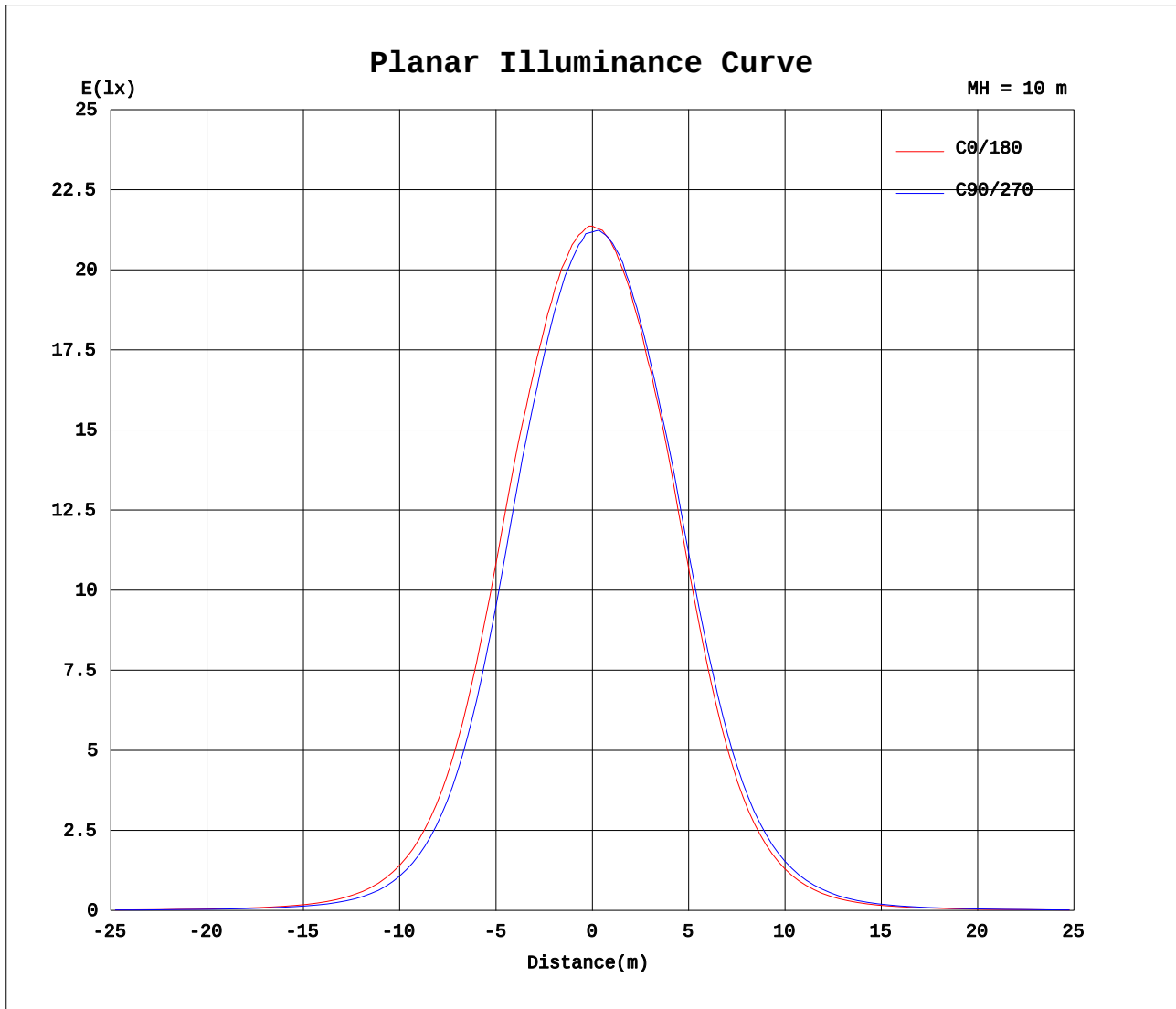
AvgL	cd/m2
L_0~180(65)av	33983
L_0~180(75)av	31338
L_0~180(85)av	40507
L_90~270(65)av	33888
L_90~270(75)av	31385
L_90~270(85)av	40323
L_45(65)av	33773
L_45(75)av	31205
L_45(85)av	40266

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2024-05-23

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2024-05-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
 Humidity: 65.0%
 Test Distance: 7.450m [K=1.0000]
 Remarks:

```

Range: 0 - 90DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

```